Application No.:	15-04-013
Exhibit No.:	
Witness:	John Phipps

In the Matter of the Application of Southern California Edison Company (U338E) for a Certificate of Public Convenience and Necessity for the RTRP Transmission Project

Application 15-04-013 (Filed April 15, 2015)

### TESTIMONY OF JOHN PHIPPS ON BEHALF OF THE CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION

Date: June 24, 2019

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1		<b>BEFORE THE PUBLIC UTILITIES COMMISSION OF THE</b>		
2		STATE OF CALIFORNIA		
3				
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5 6 7 8 9		TESTIMONY OF JOHN ON BEHALF OF 7 CALIFORNIA INDEPENDENT SYSTEM O	ГНЕ	
1	I.	INTRODUCTION		
2	Q.	What is your name and by whom are you en	nployed?	
3	А.	My name is John Phipps. I am employed by th	e California Independent System	
4		Operator Corporation (CAISO), 250 Outcroppi	ing Way, Folsom, California as	
5		Director, Real Time Operations.		
6				
7	Q.	Please describe your educational and profes	sional background.	
8	А.	I hold an Associate of Math degree and a reliab	oility coordinator certification from	
9		the North American Electric Reliability Corpor	ration. I have 33 years of experience	
20		in power system operations.		
21				
22	Q.	What are your job responsibilities?		
23	А.	I manage the CAISO market operators and 24x	7 real time operations staff, ensuring	
24		adherence to all regulatory and tariff requireme	ents.	
25				
26	Q.	What is the purpose of your testimony?		
27	А.	The purpose of my testimony is to explain the	operational benefits provide by the	
28		Riverside Transmission Reliability Project (RT	TRP). Specifically, the RTRP	
29		provides: (1) increased CAISO access to gener	ation resources within the City of	

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- Riverside (Riverside) and (2) the ability to simplify and automate dispatch for
  Riverside generation units.
- 3 II. RTRP OPERATIONAL BENEFITS

#### 4 Q. Please explain how CAISO access to generation resources in Riverside is 5 currently limited.

- 6 A. As Riverside mentioned in its direct testimony, the Riverside Energy Resource 7 Center (RERC) generation resources are owned and operated by Riverside. The 8 RERC resources are used both (1) to meet Riverside's resource adequacy 9 requirements and (2) to manage overloading on Riverside's Vista 230 kV 10 substation. The CAISO and Riverside are subject to an agreement, which was approved by the Federal Energy Regulatory Commission (FERC), to manage use of 11 12 the RERC generation assets to meet the dual system and local area needs. 13 According to this agreement, the RERC units are subject to a variance that provides 14 Riverside with dispatch control over the RERC generation during high load 15 conditions in its local area (*i.e.*, when Riverside area loads exceed 400 MW). This 16 means that RERC unit dispatch is controlled by Riverside to alleviate local issues 17 rather than the CAISO's security constrained economic dispatch. 18 19 Q. Please explain how the CAISO manages these limitations on RERC generation 20 dispatch. 21 A. As a result of the variance provided by the FERC-approved agreement between the 22 CAISO and Riverside, Riverside controls dispatch of the RERC units during high 23 load events and the CAISO markets do not have access to these resources. During 24 these events, the CAISO can only gain access to the RERC resources by calling
- 25 Riverside and asking it to provide unloaded generation to the CAISO.
- 26

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1 2	Q.	Please explain how the RTRP will increase CAISO's access to generation resources within Riverside.	
3	А.	Once the RTRP is operational, it will relieve constraints on Riverside's system and,	
4		as explained in Riverside's direct testimony, the RERC generation variance will be	
5		rescinded. <sup>1</sup>	
6			
7 8	Q.	Please explain how the CAISO will dispatch the RERC generation once the variance is rescinded.	
9	А.	Once the variance is rescinded, the CAISO will dispatch the RERC generation	
10		based on its market software, without any variance. As a result, dispatch will be	
11		optimized to serve the full CAISO system based on a security constrained economic	
12		dispatch. In addition, the CAISO will not need to conduct manual coordination with	
13		Riverside during high-load events.	
14			
15 16	Q.	What benefits will be provided by removing dispatch limitation on the RERC generation.	
17	А.	Removing the dispatch limitations will provide economic benefits by allowing the	
18		CAISO market to dispatch the RERC generation during high load events to meet	
19		system and flexibility needs. In addition, removing the limitation will provide	
20		operational benefits by replacing manual dispatch procedures with the CAISO's	
21		automated market dispatch. This will save CAISO operators time and resources by	
22		allowing the CAISO to efficiently operate the transmission system.	
23	III.	CONCLUSION	
24	Q.	Please summarize your testimony.	
25	А.	The RTRP will provide system operational benefits by allowing the CAISO full	
26		dispatch control over the RERC generation units to serve system, local, and	

<sup>&</sup>lt;sup>1</sup> Riverside Direct Testimony, p. 58:3-7.

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- 1 flexibility needs. Allowing the CAISO full operational control will provide more
- 2 efficient market dispatch and real-time operations.
- 3

## 4 Q. Does this conclude your testimony?

5 A. Yes, it does.